

```

UUU      UUU  EEEEEEEEEEEEEEE  TTTTTTTTTT TTTT  PPPPPPPPPPP  SSSSSSSSSSS  YYY      YYY
UUU      UUU  EEEEEEEEEEEEEEE  TTTTTTTTTT TTTT  PPPPPPPPPPP  SSSSSSSSSSS  YYY      YYY
UUU      UUU  EEEEEEEEEEEEEEE  TTTTTTTTTT TTTT  PPPPPPPPPPP  SSSSSSSSSSS  YYY      YYY
UUU      UUU  EEE              TTT      PPP      PPP  SSS      YYY      YYY
UUU      UUU  EEE              TTT      PPP      PPP  SSS      YYY      YYY
UUU      UUU  EEE              TTT      PPP      PPP  SSS      YYY      YYY
UUU      UUU  EEE              TTT      PPP      PPP  SSS      YYY      YYY
UUU      UUU  EEE              TTT      PPP      PPP  SSS      YYY      YYY
UUU      UUU  EEE              TTT      PPP      PPP  SSS      YYY      YYY
UUU      UUU  EEE              TTT      PPP      PPP  SSS      YYY      YYY
UUU      UUU  EEE              TTT      PPP      PPP  SSS      YYY      YYY
UUU      UUU  EEEEEEEEEEEEEEE  TTT      PPPPPPPPPPP  SSSSSSSSS  YYY
UUU      UUU  EEEEEEEEEEEEEEE  TTT      PPPPPPPPPPP  SSSSSSSSS  YYY
UUU      UUU  EEEEEEEEEEEEEEE  TTT      PPPPPPPPPPP  SSSSSSSSS  YYY
UUU      UUU  EEE              TTT      PPP      SSS      YYY
UUU      UUU  EEE              TTT      PPP      SSS      YYY
UUU      UUU  EEE              TTT      PPP      SSS      YYY
UUU      UUU  EEE              TTT      PPP      SSS      YYY
UUU      UUU  EEE              TTT      PPP      SSS      YYY
UUU      UUU  EEE              TTT      PPP      SSS      YYY
UUUUUUUUUUUUUUUUUU  EEEEEEEEEEEEEEE  TTT      PPP      SSSSSSSSSSS  YYY
UUUUUUUUUUUUUUUUUU  EEEEEEEEEEEEEEE  TTT      PPP      SSSSSSSSSSS  YYY
UUUUUUUUUUUUUUUUUU  EEEEEEEEEEEEEEE  TTT      PPP      SSSSSSSSSSS  YYY

```

[illegible]

[illegible]

(1)	54	DECLARATIONS
(1)	76	OWN STORAGE
(1)	123	R/W PSECT
(1)	214	SATSSF01
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(1)	303	DLCEFC TESTS
(1)	336	ASCEFC TESTS
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(1)	469	REG_SAVE
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(1)	533	PRINT_FAIL
(1)	569	MOD MSG_PRINT
(1)	582	CHMRTN


```
0000 1 .TITLE SATSSF01 - SATS SYSTEM SERVICE TESTS (FAILING S.C.)
0000 2 .IDENT 'V04-000'
0000 3
0000 4
0000 5 *****
0000 6 *
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0000 24 *
0000 25 *
0000 26 *****
0000 27
0000 28
0000 29 ++
0000 30 FACILITY: SATS SYSTEM SERVICE TESTS
0000 31
0000 32 ABSTRACT: The SATSSF01 module tests the execution of the following
0000 33 VMS system services, invoked in such a way as to expect failing
0000 34 status codes:
0000 35 $DACEFC
0000 36 $DLCEFC
0000 37 $ASCEFC
0000 38 $SETEXV
0000 39
0000 40
0000 41 ENVIRONMENT: User mode image; needs CMKRNL privilege,
0000 42 dynamically acquires other privileges, as needed.
0000 43
0000 44 AUTHOR: THOMAS L. CAFARELLA, CREATION DATE: AUG, 1978
0000 45 PAUL D. FAY (DISPSERV & TESTSERV MACROS)
0000 46
0000 47 MODIFIED BY:
0000 48
0000 49 V03-001 LDJ0001 Larry D. Jones 17-Sep-1980
0000 50 Modified to conform to new build command procedures.
0000 51 **
0000 52 --
```

```

0000 54 .SBTTL DECLARATIONS
0000 55 :
0000 56 : MACRO LIBRARY CALLS
0000 57 :
0000 58 $PRVDEF ; privilege definitions
0000 59 $UETPDEF ; UETP message definitions
0000 60 $SHR_MESSAGES UETP,116,<<TEXT,INFO>> ; UETPS_TEXT definition
0000 61 $PHDDEF ; process header definitions
0000 62 $PCBDEF ; PCB definitions
0000 63 $SSDEF ; SS definitions
0000 64 $STSDEF ; STS definitions
0000 65 :
0000 66 : Equated symbols
0000 67 :
00000000 0000 68 WARNING = 0 ; warning severity value for msgs
00000001 0000 69 SUCCESS = 1 ; success
00000002 0000 70 ERROR = 2 ; error
00000003 0000 71 INFO = 3 ; information
00000004 0000 72 SEVERE = 4 ; fatal
00000001 0000 73 PRVHND_SXV40 = 1 ; page 0 address for SETEXV
0000 74

```

```
0000 76 .SBTTL OWN STORAGE
0000 77 .PSECT RODATA, RD, NOWRT, NOEXE, LONG
0000 78
0000 79 TEST_MOD_NAME:
31 30 46 53 53 54 41 53 00' 0000 80 .ASCIC /SATSSF01/ ; needed for SATSMS message
08 0000
0009 81 TEST_MOD_NAME D:
46 53 53 54 41 53 00000011'010E0000' 0009 82 .ASCID /SATSSF01/ ; module name
31 30 0017
0019 83 TEST_MOD_BEGIN:
6E 75 67 65 62 00' 0019 84 .ASCIC /begun/
05 0019
001F 85 TEST_MOD_SUCC:
6C 75 66 73 73 65 63 63 75 73 00' 001F 86 .ASCIC /successful/
0A 001F
002A 87 TEST_MOD_FAIL:
64 65 6C 69 61 66 00' 002A 88 .ASCIC /failed/
06 002A
0031 89 DACEFC:
43 46 45 43 41 44 00' 0031 90 .ASCIC /DACEFC/
06 0031
0038 91 DLCEFC:
43 46 45 43 4C 44 00' 0038 92 .ASCIC /DLCEFC/
06 0038
003F 93 ASCEFC:
43 46 45 43 53 41 00' 003F 94 .ASCIC /ASCEFC/
06 003F
0046 95 SETEXV:
56 58 45 54 45 53 00' 0046 96 .ASCIC /SETEXV/
06 0046
004D 97 INADR:
00000000'00000000' 004D 98 .LONG NOACCESS, NOACCESS ; page address of noaccess psect
0055 99 PROT:
00000000' 0055 100 .LONG PRTSC_NA ; protection code for no access psect
0059 101 NAME_DLC:
43 4C 44 46 53 00000061'010E0000' 0059 102 .ASCID /SFDLC/ ; legal name string
0066 103 NAME_DLC0:
0000006E'010E0000' 0066 104 .ASCID // ; zero length string
006E 105 NAME_DLC15:
54 20 45 52 4F 4D 00000076'010E0000' 006E 106 .ASCID /MORE THAN 15 CHARACTERS/ ; illegal string length test string
41 52 41 48 43 20 35 31 20 4E 41 48 007C
53 52 45 54 43 0088
008D 107 VECTOR_SXV:
00000000 008D 108 .LONG 0 ; vector parameter for SETEXV
0091 109 ACMODE_SXV:
00000001 0091 110 .LONG 1 ; access mode param. for SETEXV
0095 111 PRVHND_SXV41:
00000000 0095 112 .LONG 0 ; readonly access for SETEXV
0099 113 CS1:
21 20 74 73 65 54 000000A1'010E0000' 0099 114 .ASCID \Test !AC service name !AC step !UL failed.\
6E 20 65 63 69 76 72 65 73 20 43 41 00A7
70 65 74 73 20 43 41 21 20 65 6D 61 00B3
2E 64 65 6C 69 61 66 20 4C 55 21 20 00BF
00CB 115 CS2:
74 63 65 70 78 45 000000D3'010E0000' 00CB 116 .ASCID \Expected !AS = !XL received !AS = !XL\
4C 58 21 20 3D 20 53 41 21 20 64 65 00D9
41 21 20 64 65 76 69 65 63 65 72 20 00E5
```


- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:30:10 VAX/VMS Macro V04-00 Page 4
OWN STORAGE 5-SEP-1984 04:27:16 [UETPSY.SRC]SATSSF01.MAR;1 (1)

```

      4C 58 21 20 3D 20 53 00F1
                                00F8
74 63 65 70 78 45 00000100'010E0000' 00F8 117 CS3:
20 3D 20 42 55 21 53 41 21 20 64 65 0106 118      .ASCID \Expected !AS!UB = !XL received !AS!UB = !XL\
64 65 76 69 65 63 65 72 20 4C 58 21 0112
58 21 20 3D 20 42 55 21 53 41 21 20 011E
                                4C 012A
                                012B 119 EXP:
73 75 74 61 74 73 00000133'010E0000' 012B 120      .ASCID \status\

```

```
0139 122 :  
0139 123 : .SBTTL R/W PSECT  
00000000 124 : .PSECT RWDATA,RD,WRT,NOEXE, LONG  
0000 125 :  
0000 126 IPID: ; PID for this process  
00000000 0000 127 : .LONG 0  
00000000 0004 128 CURRENT_TC: ; ptr to current test case  
00000000 0004 129 : .LONG 0  
0008 130 : .ALIGN LONG  
00000044 0008 131 REG_SAVE_AREA: ; register save area  
0008 132 : .BLKL 15  
007480D9 0044 133 MOD_MSG_CODE: ; test module message code for putmsg  
0048 134 : .LONG UETPS_SATSMS  
00000000 0048 135 TMN_ADDR: ;  
004C 136 : .ADDRESS TEST_MOD_NAME  
00000019 004C 137 TMD_ADDR: ;  
0050 138 : .ADDRESS TEST_MOD_BEGIN  
0050 139 PRVPRT: ;  
00 0050 140 : .BYTE 0 ; protection return byte for SETPRT  
00000000 00000000 0051 141 PRIVMASK: ; priv. mask  
0059 142 : .QUAD 0  
00000000 0059 143 CHM_CONT: ; change mode continue address  
005D 144 : .LONG 0  
00000065 005D 145 RETADR: ; returned address's from SETPRT  
0065 146 : .BLKL 2  
0065 147 DAC: ;  
0065 148 $DACEFC 0 ; DACEFC parameter list  
006D 149 DLC: ;  
006D 150 $DLCEFC NAME_DLCO ; DLCEFC parameter list  
0075 151 ASC: ;  
0075 152 $ASCEFC 0,0,0,1 ; ASCEFC parameter list  
0089 153 SET: ;  
0089 154 $SETEXV VECTOR_SXV,0,ACMODE_SXV,PRVHND_SXV40 ; SETEXV parameter list  
74 73 69 67 65 72 000000A5'010E0000' 009D 155 REG: ;  
52 20 72 65 00AB 156 : .ASCID \register R\  
00AF 157 REGNUM: ; register number  
00000000 00AF 158 : .LONG 0  
00B3 159 MSGL: ; buffer desc.  
00000050 00B3 160 : .LONG 80  
000000BB 00B7 161 : .ADDRESS BUF  
00BB 162 BUF: ;  
0000010B 00BB 163 : .BLKB 80  
010B 164 MESSAGEL: ; message desc.  
00000000 010B 165 : .LONG 0  
000000BB 010F 166 : .ADDRESS BUF  
0113 167 SERV_NAME: ; service name pointer  
00000000 0113 168 : .LONG 0
```



```
00000000 170 .PSECT SATS ACCVIO_1, RD, WRT, NOEXE, PAGE
00000200 0000 171 EMPTY: .BLKB 512 ; reserve a page of space
0200 172 :
0200 173 : +
0200 174 : *****
0200 175 : *
0200 176 : * THE ORDER OF STATEMENTS IN THIS PSECT IS CRITICAL. *
0200 177 : * DO NOT RE-ARRANGE THE VARIABLES. CONSULT SATS *
0200 178 : * FUNCTIONAL SPECIFICATION FOR A DESCRIPTION OF THE USE *
0200 179 : * OF THE EMPTY PSECT (AND ITS COMPANION PSECT, NOACCESS). *
0200 180 : *****
0200 181 : -
0200 182 :
0200 183 :
000001FF 0200 184 PRVHND_SXV42 = . - 1 ; prvhd arg for SETEXV (last byte in the page)
000001F3 0200 185 = . - 13 ; allow room for string descriptor
01F3 186 ; type AAAAA_SSSX5 go here:
00000006 01F3 187 .LONG 6 ; string length (will cross psect boundary)
000001FB 01F7 188 .ADDRESS .+4 ; string address
01FB 189 ; type AAAAA_SSSX3 go here:
000001FC 01FB 190 .BLKB 1 ; low-order byte of string length
01FC 191 ; type AAAAA_SSSX2 go here:
00000200 01FC 192 .BLKL 1 ; string length
0200 193 :
0200 194 :
0200 195 :
0200 196 :
00000000 197 .PSECT SATS ACCVIO_2, RD, WRT, NOEXE, PAGE
00000200 0000 198 NOACCESS: .BLKB 512 ; reserve a page of space
00000000 0200 199 = . - 512 ; return loc ctr to beginning of psect
00000000 0000 200 .ADDRESS EMPTY ; address of accessible string
00000000 0004 201 .ADDRESS EMPTY/^X100 ; address of accessible string
0008 202 : +
0008 203 : *** NOTE -- DO NOT CHANGE LOCATION OR SEQUENCE OF ABOVE STATEMENTS!
0008 204 : *** THIS PSECT (NOACCESS) MUST APPEAR IN MEMORY IMMEDIATELY
0008 205 : *** FOLLOWING THE EMPTY PSECT. PSECT NAMES AND OPTIONS WILL BE
0008 206 : *** CHOSEN TO FORCE THE DESIRED PSECT ORDERING.
0008 207 : -
0008 208 :
0008 209 :
0008 210 :
0008 211 :
```

```
00000000 213 .PSECT SATSSF01, RD, WRT, EXE, LONG
0000 214 .SBTTL SATSSF01
0000 215 :++
0000 216 : FUNCTIONAL DESCRIPTION:
0000 217 :
0000 218 : After performing some initial housekeeping, such as
0000 219 : printing the module begin message and acquiring needed privileges,
0000 220 : the system services are tested in each of their failure conditions.
0000 221 : Detected failures are identified and an error message is printed
0000 222 : on the terminal. Upon completion of the test a success or fail
0000 223 : message is printed on the terminal.
0000 224 :
0000 225 : CALLING SEQUENCE:
0000 226 :
0000 227 : $ RUN SATSSF01 ... (DCL COMMAND)
0000 228 :
0000 229 : INPUT PARAMETERS:
0000 230 :
0000 231 : none
0000 232 :
0000 233 : IMPLICIT INPUTS:
0000 234 :
0000 235 : none
0000 236 :
0000 237 : OUTPUT PARAMETERS:
0000 238 :
0000 239 : none
0000 240 :
0000 241 : IMPLICIT OUTPUTS:
0000 242 :
0000 243 : Messages to SYSS$OUTPUT are the only output from SATSSF01.
0000 244 : They are of the form:
0000 245 :
0000 246 : %UETP-S-SATSMS, TEST MODULE SATSSF01 BEGUN ... (BEGIN MSG)
0000 247 : %UETP-S-SATSMS, TEST MODULE SATSSF01 SUCCESSFUL ... (END MSG)
0000 248 : %UETP-E-SATSMS, TEST MODULE SATSSF01 FAILED ... (END MSG)
0000 249 : %UETP-I-TEXT, ... (VARIABLE INFORMATION ABOUT A TEST MODULE FAILURE)
0000 250 :
0000 251 : COMPLETION CODES:
0000 252 :
0000 253 : The SATSSF01 routine terminates with a $EXIT to the
0000 254 : operating system with a status code defined by UETPS_SATSMS.
0000 255 :
0000 256 : SIDE EFFECTS:
0000 257 :
0000 258 : none
0000 259 :
0000 260 : --
0000 261 :
0000 262 :
0000 263 :
0000 264 : TEST_START SATSSF01 ; let the test begin
```



```
00BE 294 :  
00BE 295 :-  
00BE 296 :  
00BE  
00BE  
0004'CF 02 DO 00RE  
00 00 DD 00C3  
04DC'CF 01 FB 00C5  
0069'CF 00000080 8F DO 00CA 297  
00C3 298  
00DC 299  
00DC  
000000EC 8F DD 00DC  
04E6'CF 01 FB 00E2  
00E7 300  
00F4 301  
00F4  
04E6'CF 01 FB 00FA  
STP2:  
NEXT_TEST  
MOVL #2,W^CURRENT_TC  
PUSHL #0  
CALLS #1,W^REG_SAVE  
MOVL #128,W^DAC+DACEFC$EFN ; set EFN  
$DACEFC G W^DAC  
FAIL_CHECK SSS_ILLEFC ; check for correct failure  
PUSHL #SS$ ILLEFC  
CALLS #1,W^REG_CHECK  
$DACEFC S #128 ; check S form  
FAIL_CHECK SSS_ILLEFC ; check for correct failure  
PUSHL #SS$ ILLEFC  
CALLS #1,W^REG_CHECK
```

```
00FF 303 .SBTTL DLCEFC TESTS
00FF 304 :+
00FF 305 :
00FF 306 : $DLCEFC tests
00FF 307 : test for a zero length cluster name
00FF 308 :
00FF 309 :-
00FF 310 NEXT_TEST
00FF
00FF STP3:
00FF          MOVL    #3,W^CURRENT_TC
00FF          PUSHL   #0
00FF          CALLS   #1,W^REG_SAVE
0113'CF 0038'CF DE 0106 311 MOVAL    W^DLCEFC,W^SERV_NAME ; set service name
04DC'CF 01 FB 0108 312 $DLCEFC G W^DLC
00000154 8F DD 0112 313 FAIL_CHECK SSS_IVLOGNAM ; check for correct failure
04E6'CF 01 FB 0118 314 PUSHL   #SS$ IVLOGNAM
00000154 8F DD 0121 315 CALLS   #1,W^REG_CHECK
04E6'CF 01 FB 0126 314 $DLCEFC S W^NAME DLC0 ; check the _S form
00000154 8F DD 0131 315 FAIL_CHECK SSS_IVLOGNAM ; check for correct failure
04E6'CF 01 FB 0137 316 PUSHL   #SS$ IVLOGNAM
013C 317 CALLS   #1,W^REG_CHECK
013C 318 :+
013C 319 : test for a non-zero but greater than 15 length cluster name
013C 320 :-
013C 321 NEXT_TEST
013C
013C STP4:
013C          MOVL    #4,W^CURRENT_TC
013C          PUSHL   #0
013C          CALLS   #1,W^REG_SAVE
0071'CF 006E'CF DE 0143 322 MOVAL    W^NAME DLC15,W^DLC+DLCEFC$_NAME ; set name address parameter
04DC'CF 01 FB 0148 323 $DLCEFC G W^DLC
0158 324 FAIL_CHECK SSS_IVLOGNAM ; check for correct failure
00000154 8F DD 0158 325 PUSHL   #SS$ IVLOGNAM
04E6'CF 01 FB 015E 326 CALLS   #1,W^REG_CHECK
00000154 8F DD 0163 325 $DLCEFC S W^NAME DLC15 ; check the _S form
04E6'CF 01 FB 016E 326 FAIL_CHECK SSS_IVLOGNAM ; check for correct failure
00000154 8F DD 0174 327 PUSHL   #SS$ IVLOGNAM
04E6'CF 01 FB 0179 328 CALLS   #1,W^REG_CHECK
0179 329 :+
0179 330 : a test for the requirement of PRMCEB privilege is not needed
0179 331 : because a process, with the same UIC as the owner UIC of a
0179 332 : created common EFC, can delete it without having the PRMCEB
0179 333 : privilege.
0179 334 :-
```

```
0179 336 .SBTTL ASCEFC TESTS
0179 337 :+
0179 338 :
0179 339 $ASCEFC tests
0179 340 test for zero EFN
0179 341 :
0179 342 :-
0179 343 NEXT_TEST
0179
0179 STP5:
0179      MOVL #5,W^CURRENT_TC
017E      PUSHL #0
0180      CALLS #1,W^REG_SAVE
0185 344 MOVAL W^ASCEFC,W^SERV_NAME ; set service name
018C 345 $ASCEFC G W^ASC
0195 346 FAIL_CHECK SSS_ILLEFC ; check for correct failure
0195      PUSHL #SS$ ILLEFC
019B      CALLS #1,W^REG_CHECK
01A0 347 $ASCEFC S #0,W^NAME_DLC ; check S form
01B1 348 FAIL_CHECK SSS_ILLEFC ; check for correct failure
01B1      PUSHL #SS$ ILLEFC
01B7      CALLS #1,W^REG_CHECK
01BC 349 :+
01BC 350 :
01BC 351 test for non-zero but less than 64 EFN
01BC 352 :
01BC 353 :-
01BC 354 NEXT_TEST
01BC
01BC STP6:
01BC      MOVL #6,W^CURRENT_TC
01C1      PUSHL #0
01C3      CALLS #1,W^REG_SAVE
01C8 355 MOVL #63,W^ASC+ASCEFC$_EFN ; set the EFN to 63
01CD 356 $ASCEFC G W^ASC
01D6 357 FAIL_CHECK SSS_ILLEFC ; check for correct failure
01D6      PUSHL #SS$ ILLEFC
01DC      CALLS #1,W^REG_CHECK
01E1 358 $ASCEFC S #63,W^NAME_DLC ; check S form
01F2 359 FAIL_CHECK SSS_ILLEFC ; check for correct failure
01F2      PUSHL #SS$ ILLEFC
01F8      CALLS #1,W^REG_CHECK
01FD 360 :+
01FD 361 :
01FD 362 test for a non-zero but greater than 127 EFN
01FD 363 :
01FD 364 :-
01FD 365 NEXT_TEST
01FD
01FD STP7:
01FD      MOVL #7,W^CURRENT_TC
0202      PUSHL #0
0204      CALLS #1,W^REG_SAVE
0209 366 MOVL #128,W^ASC+ASCEFC$_EFN ; set the EFN to 128
0212 367 $ASCEFC G W^ASC
021B 368 FAIL_CHECK SSS_ILLEFC ; check for the correct failure
021B      PUSHL #SS$ ILLEFC
```

0004'CF 05 DO 0179
00 00 DD 017E
04DC'CF 01 FB 0180
0113'CF 003F'CF DE 0185
000000EC 8F DD 0195
04E6'CF 01 FB 019B
000000EC 8F DD 01A0
04E6'CF 01 FB 01B1
000000EC 8F DD 01B1
04E6'CF 01 FB 01B7
0004'CF 06 DO 01BC
00 00 DD 01C1
04DC'CF 01 FB 01C3
0079'CF 3F DO 01C8
000000EC 8F DD 01CD
04E6'CF 01 FB 01D6
000000EC 8F DD 01D6
04E6'CF 01 FB 01DC
000000EC 8F DD 01E1
04E6'CF 01 FB 01F2
000000EC 8F DD 01F2
04E6'CF 01 FB 01F8
0004'CF 07 DO 01FD
00 00 DD 0202
04DC'CF 01 FB 0204
0079'CF 00000080 8F DO 0209
000000EC 8F DD 0212
000000EC 8F DD 021B


```
04E6'CF 01 FB 0221 CALLS #1,W^REG_CHECK
                226 369 SASCEFC S #128,W^NAME_DLC ; check S form
                (238 370 FAIL_CHECK SSS_ILLEFC ; check for correct failure
000000EC 8F DD (238
04E6'CF 01 FB (241
                0246 371 :+
                0246 372 : test for a legal EFN but not addressable name string
                0246 373 :
                0246 374 :
                0246 375 :-
                0246 376 NEXT_TEST
                0246
0004'CF 08 DO 0246 STP8:
                00 DD 024B MOVL #8,W^CURRENT_TC
04DC'CF 01 FB 024D PUSHL #0
0079'CF 00000040 8F DO 0252 CALLS #1,W^REG_SAVE
007D'CF 0000'CF DE 0258 MOVL #64,W^ASC+ASCEFC$ EFN ; legalize the EFN
                0262 377 MOVAL W^NOACCESS,W^ASC+ASCEFC$ _NAME ; set illegal address for name
                0268 378 SASCEFC G W^ASC
                0268 379 FAIL_CHECK SSS_ACCVIO ; check for correct failure
                026D 380 PUSHL #SS$ ACCVIO
04E6'CF 0C DD 026D CALLS #1,W^REG_CHECK
                01 FB 026D
                0272 381 SASCEFC S #64,W^NOACCESS ; check S form
                0287 382 FAIL_CHECK SSS_ACCVIO ; check for correct failure
                0287 383 PUSHL #SS$ ACCVIO
04E6'CF 0C DD 0287 CALLS #1,W^REG_CHECK
                01 FB 0289
                028E 384 :+
                028E 385 : test for 0 length cluster name
                028E 386 :
                028E 387 :-
                028E 388 NEXT_TEST
                028E
0004'CF 09 DO 028E STP9:
                00 DD 0293 MOVL #9,W^CURRENT_TC
04DC'CF 01 FB 0295 PUSHL #0
007D'CF 0066'CF DE 029A CALLS #1,W^REG_SAVE
                02A1 389 MOVAL W^NAME DLC0,W^ASC+ASCEFC$ _NAME ; set 0 length name
                02AA 390 SASCEFC G W^ASC
                02AA 391 FAIL_CHECK SSS_IVLOGNAM ; check for correct failure
                02B0 392 PUSHL #SS$ IVLOGNAM
                02B5 393 CALLS #1,W^REG_CHECK
                02CA 392 SASCEFC S #64,W^NAME DLC0 ; check S form
                02CA 393 FAIL_CHECK SSS_IVLOGNAM ; check for correct failure
                02D0 394 PUSHL #SS$ IVLOGNAM
04E6'CF 01 FB 02D0 CALLS #1,W^REG_CHECK
                02D5 395 :+
                02D5 396 : test for greater than 15 length cluster name
                02D5 397 :
                02D5 398 :-
                02D5 399 NEXT_TEST
                02D5
0004'CF 0A DO 02D5 STP10:
                00 DD 02DA MOVL #10,W^CURRENT_TC
04DC'CF 01 FB 02DC PUSHL #0
                CALLS #1,W^REG_SAVE
```

```
007D'CF 006E'CF DE 02E1 400 MOVAL W^NAME_DLC15,W^ASC+ASCEFC$ _NAME ; set 15 length name
                                02E8 401 $ASCEFC G W^ASC
                                02F1 402 FAIL_CHECK SSS_IVLOGNAM ; check for correct failure
                                DD 02F1 PUSHL -#SS$ _IVLOGNAM
                                FB 02F7 CALLS #1,W^REG_CHECK
                                02FC 403 $ASCEFC S #64,W^NAME_DLC15 ; check S form
                                DD 0311 404 FAIL_CHECK SSS_IVLOGNAM ; check for correct failure
                                FB 0311 PUSHL -#SS$ _IVLOGNAM
                                0317 CALLS #1,W^REG_CHECK
                                031C 405 :+
                                031C 406 : test for need to have PRMCEB privilege
                                031C 407 :-
                                031C 408
                                031C 409
                                031C 410 NEXT_TEST
                                STP11:
                                0004'CF 0B DO 031C MOVL #11,W^CURRENT_TC
                                00 DD 0321 PUSHL #0
                                04DC'CF 01 FB 0323 CALLS #1,W^REG_SAVE
                                0328 411 MODE TO,10$,KRNL,NOREGS ; kernal mode to access PHD
                                59 00000000'9F DO 0345 412 MOVL @#CTL$GL PHD,R9 ; get process header address
                                0051'CF 69 DE 034C 413 MOVAL PHD$Q PRIVMSK(R9),W^PRIVMASK ; get priv mask address
                                0351 414 MODE FROM,T0$ ; get back to user mode
                                0352 415 PRIV REM,PRMCEB ; remove PRMCEB priv.
                                007D'CF 0059'CF DE 0372 416 MOVAL W^NAME_DLC,W^ASC+ASCEFC$ _NAME ; set a legal name
                                00 DD 0379 417 PUSHL #0 ; push a dummy parameter
                                04DC'CF 01 FB 037B 418 CALLS #1,W^REG_SAVE ; save the registers
                                0380 419 $ASCEFC G W^ASC
                                0389 420 FAIL_CHECK SSS_NOPRIV ; check for correct failure
                                DD 0389 PUSHL -#SS$ NOPRIV
                                04E6'CF 01 FB 038B CALLS #1,W^REG_CHECK
                                0390 421 $ASCEFC S #64,NAME_DLC,,#1 ; check S form
                                03A7 422 FAIL_CHECK SSS_NOPRIV ; check for correct failure
                                DD 03A7 PUSHL -#SS$ NOPRIV
                                04E6'CF 01 FB 03A9 CALLS #1,W^REG_CHECK
                                03AE 423 MODE TO,20$,KRNL,NOREGS ; kernal mode to access PHD
                                59 00000000'9F DO 03CB 424 MOVL @#CTL$GL PHD,R9 ; get process header address
                                0051'CF 69 DE 03D2 425 MOVAL PHD$Q PRIVMSK(R9),W^PRIVMASK ; get priv mask address
                                03D7 426 MODE FROM,20$ ; get back to user mode
                                03DB 427 PRIV ADD,PRMCEB ; return PRMCEB priv.
```

```
03F8 429 .SBTTL SETEXV TESTS
03F8 430 :+
03F8 431 :
03F8 432 : $SETEXV TESTS
03F8 433 : test for page 0 access
03F8 434 :
03F8 435 :-
03F8 436 : NEXT_TEST
03F8
03F8 STP12:
0004'CF 0C DO 03F8 MOVL #12,W^CURRENT_TC
0000 00 DD 03FD PUSHL #0
04DC'CF 01 FB 03FF CALLS #1,W^REG_SAVE
0113'CF 0046'CF DE 0404 437 MOVAL W^SETEXV,W^SERV_NAME ; set service name
040B 438 $SETEXV_G W^SET
0414 439 FAIL_CHECK SSS_ACCVIO ; check for correct failure
0414 439 PUSHL -#SS$ ACCVIO
04E6'CF 0C DD 0414 440 $SETEXV_S W^VECTOR_SXV,0-
0401 01 FB 0416 441 W^ACMODE_SXV,W^PRVHND_SXV40 ; check_S form
041B 442 FAIL_CHECK SSS_ACCVIO ; check for correct failure
0430 442 PUSHL -#SS$ ACCVIO
04E6'CF 0C DD 0430 443 :+
0401 01 FB 0432 444 :
0437 445 : test for read-only psect access
0437 446 :
0437 447 :-
0437 448 : NEXT_TEST
0437
0437 STP13:
0004'CF 0D DO 0437 MOVL #13,W^CURRENT_TC
0000 00 DD 043C PUSHL #0
04DC'CF 01 FB 043E CALLS #1,W^REG_SAVE
0099'CF 0095'CF DE 0443 449 MOVAL W^PRVHND_SXV41,W^SET+SETEXV$_PRVHND
044A 450 $SETEXV_G W^SET
0453 451 FAIL_CHECK SSS_ACCVIO ; check for correct failure
0453 451 PUSHL -#SS$ ACCVIO
04E6'CF 0C DD 0453 452 $SETEXV_S W^VECTOR_SXV,0-
0401 01 FB 0455 453 W^ACMODE_SXV,W^PRVHND_SXV41 ; check_S form
045A 454 FAIL_CHECK SSS_ACCVIO ; check for correct failure
045A 454 PUSHL -#SS$ ACCVIO
04E6'CF 0C DD 046F 455 :+
0401 01 FB 0471 456 :
0476 457 : test for noaccess psect protection
0476 458 :
0476 459 :-
0476 460 : NEXT_TEST
0476
0476 STP14:
0004'CF 0E DO 0476 MOVL #14,W^CURRENT_TC
0000 00 DD 047B PUSHL #0
04DC'CF 01 FB 047D CALLS #1,W^REG_SAVE
0099'CF 01FF'CF DE 0482 461 MOVAL W^PRVHND_SXV42,W^SET+SETEXV$_PRVHND
0489 462 $SETEXV_G W^SET
```


			0492	463	FAIL_CHECK SSS_ACCVIO	; check for correct failure
		OC	0492		PUSHL #SS\$ ACCVIO	
04E6'CF	01	FB	0494		CALLS #1,W^REG_CHECK	
			0499	464	\$SETEXV_S W^VECTOR_SXV,0-	
			0499	465	W^ACMODE_SXV,W^PRVHND_SXV42	; check S form
			04AE	466	FAIL_CHECK SSS_ACCVIO	; check for correct failure
		OC	04AE		PUSHL #SS\$ ACCVIO	
04E6'CF	01	FB	04B0		CALLS #1,W^REG_CHECK	
			04B5	467	TEST_END	; end the test
		DD	04B5		PUSHL W^TMD_ADDR	
		DD	04B9		PUSHL W^TMN_ADDR	
		DD	04B0		PUSHL #2	
		DD	04BF		PUSHL W^MOD_MSG_CODE	
		FB	04C3		CALLS #SST1-G^LIB\$SIGNAL	
0044'CF	01	FO	04CA		INSV #1,#SISV_INHIB_MSG,#1,W^MOD_MSG_CODE	
		DD	04D1		PUSHL W^MOD_MSG_CODE	
00000000'GF	01	FB	04D5		CALLS #1,G^SYS\$EXIT	

```
04DC 469 .SBTTL REG_SAVE
04DC 470 ++
04DC 471 : FUNCTIONAL DESCRIPTION:
04DC 472 : Subroutine to save R2-R11 in the register save location.
04DC 473 :
04DC 474 : CALLING SEQUENCE:
04DC 475 :     PUSHL    #0          ; save a dummy parameter
04DC 476 :     CALLS   #1,W*REG_SAVE ; save R2-R11
04DC 477 :
04DC 478 : INPUT PARAMETERS:
04DC 479 :     NONE
04DC 480 :
04DC 481 : OUTPUT PARAMETERS:
04DC 482 :     NONE
04DC 483 :
04DC 484 : --
04DC 485 :
04DC 486 REG_SAVE:
04DC 487 .WORD    ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
0008'CF 14 AD 28 OFFC 04DE 488 MOVCL3   #4*10,^X14(FP),W*REG_SAVE_AREA ; save the registers in the program
04E5 489 RET
04E6 490 .SBTTL REG_CHECK
04E6 491 ++
04E6 492 : FUNCTIONAL DESCRIPTION:
04E6 493 : Subroutine to test R0 & R2-R11 for proper content after a service
04E6 494 : execution. A snapshot is taken by the REG_SAVE routine at the
04E6 495 : beginning of each step and this routine is executed after the
04E6 496 : services have been executed.
04E6 497 :
04E6 498 : CALLING SEQUENCE:
04E6 499 :     PUSHL    #SS$_XXXXXX ; push expected R0 contents
04E6 500 :     CALLS   #1,W*REG_CHECK ; execute this routine
04E6 501 :
04E6 502 : INPUT PARAMETERS:
04E6 503 :     expected R0 contents on the stack
04E6 504 :
04E6 505 : OUTPUT PARAMETERS:
04E6 506 :     possible error messages printed using $PUTMSG
04E6 507 :
04E6 508 : --
04E6 509 :
04E6 510 REG_CHECK:
04E6 511 .WORD    ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
100 50 04 AC D1 04E8 512 CMPL    4(AP),R0 ; is this the right fail code?
04E8 513 BEQL    10$ ; br if yes
04E8 514 PUSHL    R0 ; push received data
04E8 515 PUSHL    4(AP) ; push expected data
012B'CF 04 AC DD 04F0 516 PUSHAL   W*EXP ; push the string variable
052E'CF 03 FB 04F7 517 CALLS   #3,W*PRINT_FAIL ; print the error message
04FC 518 10$:
0008'CF 14 AD 28 29 04FC 519 CMPC3   #4*10,^X14(FP),W*REG_SAVE_AREA ; check all but R0
28 13 0503 520 BEQL    20$ ; br if O.K.
56 53 00000008'8F C3 0505 521 SUBL3   #REG_SAVE_AREA,R3,R6 ; calculate the register number
56 56 04 C6 050D 522 DIVL2   #4,R6
00AF'CF 56 02 81 0510 523 ADDB3   #^X2,R6,W*REGNUM ; put it in the string
51 03 CA 0516 524 BICL2   #3,R1 ; backup to register boundry
53 03 CA 0519 525 BICL2   #3,R3
```

```
00AF'CF DD 051C 526      PUSHL  W^REGNUM      ; push register number
        DD 0520 527      PUSHL  (R1)          ; push received data
        DD 0522 528      PUSHL  (R3)          ; push expected data
009D'CF DF 0524 529      PUSHAL  W^REG          ; set string pntr param.
052E'CF FB 0528 530      CALLS   #4,W^PRINT_FAIL ; print the error message
        04 052D 531      20$:
        04 052D 532      RET
        04 052E 533      .SBTTL PRINT_FAIL
        04 052E 534      :++
        04 052E 535      : FUNCTIONAL DESCRIPTION:
        04 052E 536      : Subroutine to report failures using $PUTMSG
        04 052E 537      :
        04 052E 538      : CALLING SEQUENCE:
        04 052E 539      : Mode #1      PUSHL EXPECTED Mode #2      PUSHL REG NUMBER
        04 052E 540      :              PUSHL RECEIVED              PUSHL EXPECTED
        04 052E 541      :              PUSHAL STRING VAR           PUSHAL RECEIVED
        04 052E 542      :              CALLS #3,W^PRINT_FAIL       PUSHAL STRING VAR
        04 052E 543      :                                          CALLS #4,W^PRINT_FAIL
        04 052E 544      :
        04 052E 545      : INPUT PARAMETERS:
        04 052E 546      : Listed above
        04 052E 547      :
        04 052E 548      : OUTPUT PARAMETERS:
        04 052E 549      : an error message is printed using $PUTMSG
        04 052E 550      :
        04 052E 551      : --
        04 052E 552      :
        04 052E 553      PRINT_FAIL:
        04 052E 554      .WORD  ^M<R2,R3,R4,R5>
        04 0530 555      $FAO S  W^CS1,W^MESSAGEL,W^MSGEL,#TEST_MOD_NAME,W^SERV_NAME,W^CURRENT_TC
        04 0551 556      PUTMSG  <#UETPS_TEXT,#1,#MESSAGEL>      ; print the message
        04 0566 557      CMPB    (AP),#4-      ; is this a register message?
        04 0569 558      BEQL    10$          ; br if yes
        04 056B 559      $FAO_S  W^CS2,W^MESSAGEL,W^MSGEL,4(AP),8(AP),4(AP),12(AP)
        04 058A 560      BRB     20$          ; goto output message
        04 058C 561      10$:
        04 058C 562      $FAO_S  W^CS3,W^MESSAGEL,W^MSGEL,4(AP),16(AP),8(AP),4(AP),16(AP),12(AP)
        04 05B1 563      20$:
        04 05B1 564      PUTMSG  <#UETPS_TEXT,#1,#MESSAGEL>      ; print the message
        04 05C6 565      MOVAL   W^TEST_MOD_FAIL,W^TMD_ADDR      ; set failure message address
0044'CF 03 004C'CF 002A'CF DE 05CD 566      INSV    #ERROR,#0,#3,W^MOD_MSG_CODE ; set severity code
        04 05D4 567      RET
```



```
05D5 569 .SBTTL MOD_MSG_PRINT
05D5 570 MOD_MSG_PRINT:
05D5 571 :
05D5 572 :*****
05D5 573 :*
05D5 574 :* PRINTS THE TEST MODULE BEGIN/SUCCESSFUL/FAILED MESSAGES *
05D5 575 :* (USING THE PUTMSG MACRO). *
05D5 576 :*
05D5 577 :*****
05D5 578 :
05D5 579 PUTMSG <W^MOD_MSG_CODE,#2,W^TMN_ADDR,W^TMD_ADDR> : PRINT MSG
05 05EA 580 RSB ; ... AND RETURN TO CALLER
05EB 581 :
05EB 582 .SBTTL CHMRTN
05EB 583 CHMRTN:
05EB 584 :*****
05EB 585 :*
05EB 586 :* CHANGE MODE ROUTINE. THIS ROUTINE GETS CONTROL WHENEVER *
05EB 587 :* A CMKRN, CMEXEC, OR CMSUP SYSTEM SERVICE IS ISSUED *
05EB 588 :* BY THE MODE MACRO ('TO' OPTION). IT MERELY DOES *
05EB 589 :* A JUMP INDIRECT ON A FIELD SET UP BY MODE. IT HAS *
05EB 590 :* THE EFFECT OF RETURNING TO THE END OF THE MODE *
05EB 591 :* MACRO EXPANSION. *
05EB 592 :*
05EB 593 :*****
05EB 594 :
0000059'FF 0000 05EB 595 .WORD 0 ; ENTRY MASK
17 05ED 596 JMP 3CHM_CONT ; RETURN TO MODE MACRO IN NEW MODE
05F3 597 :
05F3 598 :* RET INSTR WILL BE ISSUED IN EXPANSION OF 'MODE FROM, ....' MACRO
05F3 599 :
05F3 600 .END SATSSF01
```

SATSSF01
Symbol table

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:30:10 VAX/VMS Macro V04-00
5-SEP-1984 04:27:16 [UETPSY.SRC]SATSSF01.MAR;1

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```

$$ARGS      = 00000004
$$T1        = 00000004
$$T2        = 00000009
ACMODE_SXV  = 00000091 R    02
ASC         = 00000075 R    03
ASCEFC      = 0000003F R    02
ASCEFC$_EFN = 00000004
ASCEFC$_NAME = 00000008
ASCEFC$_NARGS = 00000004
ASCEFC$_PERM = 00000010
ASCEFC$_PROT = 0000000C
BUF         = 000000BB R    03
CHMRTN      = 000005EB R    06
CHM_CONT    = 00000059 R    03
CS1         = 00000099 R    02
CS2         = 000000CB R    02
CS3         = 000000F8 R    02
CTL$GL_PHD  = ***** X    06
CURRENT_TC  = 00000004 R    03
DAC         = 00000065 R    03
DACEFC      = 00000031 R    02
DACEFC$_EFN = 00000004
DACEFC$_NARGS = 00000001
DLC         = 0000006D R    03
DLCEFC      = 00000038 R    02
DLCEFC$_NAME = 00000004
DLCEFC$_NARGS = 00000001
EMPTY       = 00000000 R    04
ERROR       = 00000002
EXP         = 0000012B R    02
INADR       = 0000004D R    02
INFO        = 00000003
LIB$SIGNAL  = ***** X    06
MESSAGEL    = 0000010B R    03
MOD_MSG_CODE = 00000044 R    03
MOD_MSG_PRINT = 000005D5 R    06
MSGC        = 000000B3 R    03
NAME_DLC    = 00000059 R    02
NAME_DLCO   = 00000066 R    02
NAME_DLC15  = 0000006E R    02
NOACCESS    = 00000000 R    05
PHD$Q_PRIVMSK = 00000000
PRINT_FAIL  = 0000052E R    06
PRIVMASK    = 00000051 R    03
PRIV_ARGS   = 00000002
PROT        = 00000055 R    02
PRT$C_NA    = ***** X    02
PRV$V_PRMCEB = 0000000A
PRVHND_SXV40 = 00000001
PRVHND_SXV41 = 00000095 R    02
PRVHND_SXV42 = 000001FF R    04
PRVPRT      = 00000050 R    03
REG         = 0000009D R    03
REGNUM      = 000000AF R    03
REG_CHECK   = 000004E6 R    06
REG_SAVE    = 000004DC R    06
REG_SAVE_AREA = 00000008 R    03

```

```

RETADR      0000005D R    03
SATSSF01    00000000 RG   06
SERV_NAME   00000113 R    03
SET         00000089 R    03
SETEXV      00000046 R    02
SETEXV$_ACMODE = 0000000C
SETEXV$_ADDRESS = 00000008
SETEXV$_NARGS  = 00000004
SETEXV$_PRVHND = 00000010
SETEXV$_VECTOR = 00000004
SEVERE      = 00000004
SHR$K_SHRDEF = 00000001
SHR$_TEXT   = 00001130
SS$_ACCVIO  = 0000000C
SS$_ILLEFC  = 000000EC
SS$_IVLOGNAM = 00000154
SS$_NOPRIV  = 00000024
STEP        = 0000000E
STP0        0000003D R    06
STP1        00000085 R    06
STP10       000002D5 R    06
STP11       0000031C R    06
STP12       000003F8 R    06
STP13       00000437 R    06
STP14       00000476 R    06
STP2        000000BE R    06
STP3        000000FF R    06
STP4        0000013C R    06
STP5        00000179 R    06
STP6        000001BC R    06
STP7        000001FD R    06
STP8        00000246 R    06
STP9        0000028E R    06
ST$$_V_INHIB_MSG = 0000001C
SUCCESS     = 00000001
SYSSASCEFC  ***** GX   06
SYSSCMKRNL  ***** GX   06
SYSSDACEFC  ***** GX   06
SYSSDLCEFC  ***** GX   06
SYSEXIT     ***** GX   06
SY$FAO      ***** X    06
SY$HIBER    ***** GX   06
SY$SETEXV   ***** GX   06
SY$SETPRN   ***** GX   06
SY$SETPRT   ***** GX   06
SY$SETPRV   ***** GX   06
SY$WAKE     ***** GX   06
TEST_MOD_BEGIN = 00000019 R    02
TEST_MOD_FAIL = 0000002A R    02
TEST_MOD_NAME = 00000000 R    02
TEST_MOD_NAME_D = 00000009 R    02
TEST_MOD_SUCC = 0000001F R    02
TMD_ADDR    0000004C R    03
TMN_ADDR    00000048 R    03
TPID        00000000 R    03
UETP$_SATSMS = 007480D9
UETP$_TEXT  = 00741133

```

SATSSF01
Symbol table

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:30:10 VAX/VMS Macro V04-00
5-SEP-1984 04:27:16 [UETPSY.SRC]SATSSF01.MAR;1

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VECTOR SXV
WARNING

0000008D R 02
= 00000000

+-----+
! Psect synopsis !
+-----+

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
\$ABSS	00000000 (0.)	01 (1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
RODATA	00000139 (313.)	02 (2.)	NOPIC USR CON REL LCL NOSHR NOEXE RD NOWRT NOVEC LONG
RWDATA	00000117 (279.)	03 (3.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC LONG
SATS_ACCVIO_1	00000200 (512.)	04 (4.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC PAGE
SATS_ACCVIO_2	00000200 (512.)	05 (5.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC PAGE
SATSSF01	000005F3 (1523.)	06 (6.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC LONG

+-----+
! Performance indicators !
+-----+

Phase	Page faults	CPU Time	Elapsed Time
Initialization	30	00:00:00.06	00:00:00.80
Command processing	113	00:00:00.67	00:00:02.19
Pass 1	392	00:00:13.04	00:00:26.28
Symbol table sort	0	00:00:01.56	00:00:02.84
Pass 2	144	00:00:02.92	00:00:05.54
Symbol table output	17	00:00:00.11	00:00:00.11
Psect synopsis output	5	00:00:00.03	00:00:00.03
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	703	00:00:18.39	00:00:37.79

The working set limit was 1350 pages.
79290 bytes (155 pages) of virtual memory were used to buffer the intermediate code.
There were 60 pages of symbol table space allocated to hold 999 non-local and 8 local symbols.
600 source lines were read in Pass 1, producing 30 object records in Pass 2.
58 pages of virtual memory were used to define 53 macros.

+-----+
! Macro library statistics !
+-----+

Macro library name	Macros defined
_\$255\$DUA28:[SHRLIB]UETP.MLB;1	12
_\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	2
_\$255\$DUA28:[SYSLIB]STARLET.MLB;2	36
TOTALS (all libraries)	50

1328 GETS were required to define 50 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SATSSF01/OBJ=OBJ\$:SATSSF01 MSRC\$:SATSSF01/UPDATE=(ENH\$:SATSSF01)+EXECML\$/LIB+SHRLIB\$:UETP/LIB

0416

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0417 AH-BT13A-SE
VAX/VMS V4.0

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
136	137	138	139	140	141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160	161	162	163	164	165
166	167	168	169	170	171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190	191	192	193	194	195
196	197	198	199	200	201	202	203	204	205	206	207	208	209	210
211	212	213	214	215	216	217	218	219	220	221	222	223	224	225
226	227	228	229	230	231	232	233	234	235	236	237	238	239	240
241	242	243	244	245	246	247	248	249	250	251	252	253	254	255
256	257	258	259	260	261	262	263	264	265	266	267	268	269	270
271	272	273	274	275	276	277	278	279	280	281	282	283	284	285
286	287	288	289	290	291	292	293	294	295	296	297	298	299	300
301	302	303	304	305	306	307	308	309	310	311	312	313	314	315
316	317	318	319	320	321	322	323	324	325	326	327	328	329	330
331	332	333	334	335	336	337	338	339	340	341	342	343	344	345
346	347	348	349	350	351	352	353	354	355	356	357	358	359	360
361	362	363	364	365	366	367	368	369	370	371	372	373	374	375
376	377	378	379	380	381	382	383	384	385	386	387	388	389	390
391	392	393	394	395	396	397	398	399	400	401	402	403	404	405
406	407	408	409	410	411	412	413	414	415	416	417	418	419	420
421	422	423	424	425	426	427	428	429	430	431	432	433	434	435
436	437	438	439	440	441	442	443	444	445	446	447	448	449	450
451	452	453	454	455	456	457	458	459	460	461	462	463	464	465
466	467	468	469	470	471	472	473	474	475	476	477	478	479	480
481	482	483	484	485	486	487	488	489	490	491	492	493	494	495
496	497	498	499	500	501	502	503	504	505	506	507	508	509	510
511	512	513	514	515	516	517	518	519	520	521	522	523	524	525
526	527	528	529	530	531	532	533	534	535	536	537	538	539	540
541	542	543	544	545	546	547	548	549	550	551	552	553	554	555
556	557	558	559	560	561	562	563	564	565	566	567	568	569	570
571	572	573	574	575	576	577	578	579	580	581	582	583	584	585
586	587	588	589	590	591	592	593	594	595	596	597	598	599	600
601	602	603	604	605	606	607	608	609	610	611	612	613	614	615
616	617	618	619	620	621	622	623	624	625	626	627	628	629	630
631	632	633	634	635	636	637	638	639	640	641	642	643	644	645
646	647	648	649	650	651	652	653	654	655	656	657	658	659	660
661	662	663	664	665	666	667	668	669	670	671	672	673	674	675
676	677	678	679	680	681	682	683	684	685	686	687	688	689	690
691	692	693	694	695	696	697	698	699	700	701	702	703	704	705
706	707	708	709	710	711	712	713	714	715	716	717	718	719	720
721	722	723	724	725	726	727	728	729	730	731	732	733	734	735
736	737	738	739	740	741	742	743	744	745	746	747	748	749	750
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